

Title (en)
AXIAL GAP TYPE MOTOR

Title (de)
MOTOR DES AXIALSPALTSTYPS

Title (fr)
MOTEUR DU TYPE À ÉCARTEMENT AXIAL

Publication
EP 2161815 A1 20100310 (EN)

Application
EP 08765438 A 20080611

Priority
• JP 2008060659 W 20080611
• JP 2007167490 A 20070626

Abstract (en)
There is provided an axial gap motor including a rotor rotatable around a rotation axis; and a first stator and a second stator arranged to face each other with the rotor therebetween from both sides of the rotor in the rotation axis direction of the rotor, wherein the rotor includes a plurality of main permanent magnets having magnetizing directions in the rotation axis direction of the rotor and arranged in a peripheral direction of the rotor; a partition member arranged between the main permanent magnets which are adjacent to each other in the peripheral direction of the rotor, the partition member including a nonmagnetic material; and auxiliary permanent magnets having a magnetizing direction that is orthogonal both to the rotation axis direction of the rotor and a radial direction of the rotor, and arranged on both sides of the partition member in the rotation axis direction of the rotor.

IPC 8 full level
H02K 1/27 (2006.01); **H02K 21/24** (2006.01)

CPC (source: EP US)
H02K 1/2796 (2022.01 - EP US); **H02K 21/24** (2013.01 - EP US)

Cited by
FR2996378A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 2161815 A1 20100310; **EP 2161815 A4 20111116**; **EP 2161815 B1 20120919**; CN 101689773 A 20100331; CN 101689773 B 20120118; JP 2009011023 A 20090115; JP 4707696 B2 20110622; US 2010187933 A1 20100729; US 8283829 B2 20121009; WO 2009001675 A1 20081231

DOCDB simple family (application)
EP 08765438 A 20080611; CN 200880021599 A 20080611; JP 2007167490 A 20070626; JP 2008060659 W 20080611; US 66520908 A 20080611